

CLAIMS:

1. A micro-electromechanical switching device including at least one pair of inductive elements electrically connected in series, said inductive elements being intended to generate two magnetic fields when current is flowing through said inductive elements, the interaction between these two fields resulting in a displacement of at least one of the inductive elements and a displacement of a mobile contact element linked to said at least one inductive element and intended to switch between two positions, at least one of said positions enabling an electrical connection between at least two conductive elements.
2. A micro-electromechanical switching device according to Claim 1, wherein said two magnetic fields are opposite.
3. A micro-electromechanical switching device according to Claim 1, wherein an insulation is provided on conductive elements in order to calibrate values of capacities between said contact element and said conductive elements.
4. A micro-electromechanical switching device according to any one of the Claims 1 and 2, wherein said inductive elements are in two distinct and parallel planes and superimposed on each other.
5. A micro-electromechanical switching device according to any one of Claims 1 to 3, wherein inductive elements are electromagnetic coils coiled in opposite ways.
6. A micro-electromechanical switching device according to any one of the Claims 1 to 4, wherein a second pair of inductive elements is connected to the first pair by connection of one of the inductive elements of the second pair to the contact element.

7. A micro-electromechanical switching device according to any one of the Claims 1 to 5, wherein said device is placed in a cavity, said cavity being provided with an electrode intended to enter in contact with said contact element.
- 5 8. A circuit including at least one micro-electromechanical switching device as claimed in any one of the Claims 1 to 6, for causing a commutation to occur between two operating modes of at least a functional part of said circuit.
- 10 9. A telecommunication electronic apparatus including at least an antenna, at least an amplifier, processing means to process signals, said processing means comprising at least a circuit as claimed in Claim 7.
- 15 10. A method for manufacturing a micro-electromechanical switching device intended to switch between two positions, at least one of said positions enabling an electrical connection between at least two conductive elements, by the steps of:
- forming at least one first inductive element on a substrate,
 - depositing an under-etchable material above said inductive element,
 - forming at least one second inductive element above said under-etchable material, a conductive link being arranged through this under-etchable material to connect the two
 - 20 inductive elements,
 - forming a contact element linked to said second inductive element above said under-etchable material,
 - under-etching the under-etchable material.